1 <u>CLAIMS</u>

- 2 The invention claimed is:
- 3 1. A rear peep sight for mounting to a string of a bow and having
- 4 interchangeable sight ports for accommodating different user
- 5 preferences, said sight comprising:
- 6 a) a mounting member; and
- 7 b) a sighting member;
- 8 wherein said mounting member is for mounting to the string of the
- 9 bow; and
- wherein said sighting member is attached to said mounting member.
- 11 2. The sight as defined in claim 1, wherein said sighting member is
- 12 interchangeably attached to said mounting member so as to
- accommodate different user preferences of sight ports.
- 14 3. The sight as defined in claim 1, wherein said mounting member is
- 15 generally oval-shaped; and
- wherein said mounting member is vertically-oriented.
- 17 4. The sight as defined in claim 1, wherein said mounting member has
- 18 a forward-facing surface;
- wherein said mounting member has a rearward-facing surface; and
- wherein said mounting member has a pair of sideward-facing surfaces.
- 21 5. The sight as defined in claim 4, wherein said pair of sideward-
- 22 facing surfaces of said mounting member have a pair of grooves
- 23 running therealong, respectively; and
- 24 wherein said pair of grooves in said pair of sideward-facing
- 25 surfaces of said mounting member, respectively, are for tightly

1	receiving the string of the bow so as to thereby mount said rear
2	peep sight to the string of the bow.

- The sight as defined in claim 4, wherein said mounting member has a sighting through bore;

 wherein said sighting through bore in said mounting member extends substantially centrally through said mounting member; and wherein said sighting through bore in said mounting member extends from said forward-facing surface of said mounting member to said
- 7. The sight as defined in claim 6, wherein said mounting member has an alignment arm;

rearward-facing surface of said mounting member.

- wherein said alignment arm of said mounting member is for reducing and helping prevent twisting or axial rotation of said rear peep sight about the string of the bow; and
- wherein said alignment arm of said mounting member extends incliningly upwardly from said forward-facing surface of said mounting member, above said sighting through bore in said mounting member, to a terminal free end.
- 19 8. The sight as defined in claim 7, wherein said alignment arm of said mounting member is slender;
- wherein said alignment arm of said mounting member is elongated; and wherein said alignment arm of said mounting member is rod-like.
- 23 9. The sight as defined in claim 8; further comprising an elastic cord;
 24 wherein said elastic cord is attached to said terminal free end of
 25 said alignment arm of said mounting member; and
 26 wherein said elastic cord extends from said terminal free end of

wherein said elastic cord extends from said terminal free end of said alignment arm of said mounting member for attaching to the bow by a mount, and by so doing, as the string of the bow is drawn

DOC. No.: SHAA03A.

9

27

1	rearward, said elastic cord urges said alignment arm into alignment
2	with the bow, thus precluding axial twist of said rear peep sight
3	about the string of the bow and keeping said sighting member
4	disposed generally perpendicular to a line of sight of an archer.

- 5 10. The sight as defined in claim 7, wherein said alignment arm extends 6 along a plane which is thirty-five degrees from a plane in which 7 said mounting member lies.
- 8 11. The sight as defined in claim 7, wherein said mounting member has a visor;
- wherein said visor of said mounting member is for reducing glare;
- wherein said visor of said mounting member extends incliningly
- 12 downwardly from said rearward-facing surface of said mounting
- member;
- wherein said visor of said mounting member is disposed above said
- sighting through bore in said mounting member; and
- wherein said visor of said mounting member is disposed below the
- 17 elevation of said alignment arm of said mounting member.
- 18 12. The sight as defined in claim 11, wherein said visor of said mounting member is convex-concave-shaped.
- 20 13. The sight as defined in claim 6, wherein said rearward-facing surface of said mounting member has a channel;
- wherein said channel extends transversely in said rearward-facing surface of said mounting member;
- 24 wherein said channel in said rearward-facing surface of said
- mounting member extends from one side surface of said pair of side surfaces of said mounting member to the other side surface of said
- 27 pair of side surfaces of said mounting member;

- 1 wherein said channel in said rearward-facing surface of said 2 mounting member opens into said one side surface of said pair of 3 side surfaces of said mounting member; wherein said channel in said rearward-facing surface of said 4 5 mounting member opens into said other side surface of said pair of 6 side surfaces of said mounting member; and 7 wherein said channel in said rearward-facing surface of said 8 mounting member communicates with said sighting through bore in said 9 mounting member.
- 10 The sight as defined in claim 13, wherein said channel in said 14. 11 rearward-facing surface of said mounting member is defined by an 12 upper wall; 13 wherein said channel in said rearward-facing surface of said 14 mounting member is defined by a lower wall; and wherein said upper wall and said lower wall defining said channel 15 in said rearward-facing surface of said mounting member both extend 16 17 transversely across said rearward-facing surface of said mounting 18 member.
- 19 15. The sight as defined in claim 14, wherein said upper wall defining 20 said channel in said rearward-facing surface of said mounting member 21 extends forwardly and upwardly in said rearward-facing surface of 22 said mounting member and said lower wall defining said channel in 23 said rearward-facing surface of said mounting member extends forwardly and downwardly in said rearward-facing surface of said 24 25 mounting member so as to allow said channel in said rearward-facing 26 surface of said mounting member to diverge forwardly.
- 27 16. The sight as defined in claim 14, wherein said mounting member has a pair of through bores;

1 wherein said pair of through bores in said mounting member extend 2 laterally through said mounting member; and wherein said pair of through bores in said mounting member extend 3 4 from said forward-facing surface of said mounting member to said 5 rearward-facing surface of said mounting member. 6 17. The sight as defined in claim 16, wherein said pair of through bores 7 in said mounting member are horizontally-aligned with each other. 8 18. The sight as defined in claim 16, wherein said pair of through bores 9 in said mounting member straddle said sighting through bore in said 10 mounting member. 11 19. The sight as defined in claim 16, wherein said pair of through bores 12 in said mounting member are not threaded. The sight as defined in claim 16, wherein said sighting member is 13 20. 14 a plate. 15 The sight as defined in claim 20, wherein said plate of said 16 sighting member is slidably received in said channel in said 17 rearward-facing surface of said mounting member, from either sideward-facing surface of said pair of sideward-facing surfaces of 18 19 said mounting member. 20 22. The sight as defined in claim 20, wherein said plate of said 21 sighting member is generally rectangular-shaped; and 22 wherein said plate of said sighting member is horizontally-oriented. The sight as defined in claim 20, wherein said plate of said 23 23.

24

sighting member has a forward-facing surface;

wherein said plate of said sighting member has a rearward-facing surface;

wherein said plate of said sighting member has an upper-facing surface; and

wherein said plate of said sighting member has a lower-facing surface.

- The sight as defined in claim 23, wherein said upper-facing surface 7 24. 8 of said plate of said sighting member extends forwardly and upwardly 9 from said rearward-facing surface of said plate of said sighting member to said forward-facing surface of said plate of said sighting 10 11 member and said lower-facing surface of said plate of said sighting 12 member extends forwardly and downwardly from said rearward-facing 13 surface of said plate of said sighting member to said forward-facing surface of said plate of said sighting member so as to allow said 14 15 plate of said sighting member to converge rearwardly.
- 25. 16 The sight as defined in claim 23, wherein said upper-facing surface 17 of said plate of said sighting member is captured by said upper wall 18 defining said channel in said rearward-facing surface of said 19 mounting member and said lower-facing surface of said plate of said 20 sighting member is captured by said lower wall defining said channel in said rearward-facing surface of said mounting member when said 21 22 plate of said sighting member is slid sideways into said channel in 23 said rearward-facing surface of said mounting member so as to 24 provide a dove-tail joint that prevents said plate of said sighting 25 member from vertical movement once said plate of said sighting 26 member is in said channel in said rearward-facing surface of said 27 mounting member, yet allows for horizontal movement so as to allow 28 said plate of said sighting member to slide sideways into said 29 channel in said rearward-facing surface of said mounting member.

DOC. No.: SHAA03A.

3

1 26. The sight as defined in claim 23, wherein said plate of said sighting member has a sighting through bore;

wherein said sighting through bore in said plate of said sighting member extends substantially centrally through said plate of said sighting member;

wherein said sighting through bore in said plate of said sighting member extends from said rearward-facing surface of said plate of said sighting member to said forward-facing surface of said plate of said sighting member; and

wherein said sighting through bore in said plate of said sighting member is aligned with said sighting through bore in said mounting member once said plate of said sighting member is in said channel in said rearward-facing surface of said mounting member.

- The sight as defined in claim 26, wherein said sighting through bore in said plate of said sighting member has a shape for accommodating different user preferences.
- The sight as defined in claim 26, wherein said plate of said sighting member has an auxiliary through bore;
 wherein said auxiliary through bore in said plate of said sighting

member extends through said plate of said sighting member, from said rearward-facing surface of said plate of said sighting member to said forward-facing surface of said plate of said sighting member; wherein said auxiliary through bore in said plate of said sighting member is positioned to one side of said sighting through bore in said plate of said sighting member; and

wherein said auxiliary through bore in said plate of said sighting member is aligned with one through bore of said pair of through bores in said mounting member once said plate of said sighting member is in said channel in said rearward-facing surface of said

30 mounting member.

3

4

5

6 7

8

9

10

11

12

13

20

21

22

2324

25

26

27

- 1 29. The sight as defined in claim 28, wherein said auxiliary through 2 bore in said plate of said sighting member is threaded.
- 3 30. The sight as defined in claim 29, wherein said plate of said sighting member has a pimple;
- wherein said pimple of said plate of said sighting member extends rearwardly from said rearward-facing surface of said plate of said sighting member;
- wherein said pimple of said plate of said sighting member is positioned to the other side of said sighting through bore in said plate of said sighting member;
- wherein said pimple of said plate of said sighting member is horizontally-aligned with said auxiliary through bore in said plate of said sighting member; and
- wherein said pimple of said plate of said sighting member is engaged
 by the other through bore of said pair of through bores in said
 mounting member once said plate of said sighting member is in said
 channel in said rearward-facing surface of said mounting member so
 as to prevent said plate of said sighting member from horizontal
 movement once said plate of said sighting member is in said channel
 in said rearward-facing surface of said mounting member.
- 31. The sight as defined in claim 28, wherein said sighting member has a screw; and wherein said screw of said sighting member extends freely through

one through bore of said pair of through bores in said mounting member, from said forward-facing surface of said mounting member, and threadably into said auxiliary through bore in said plate of said sighting member, from said forward-facing surface of said plate of said sighting member, so as to maintain prevention of said plate of said sighting member from horizontal movement once said plate of

DOC. No.: SHAA03A.

24

25

26

2728

- said sighting member is in said channel in said rearward-facing surface of said mounting member.
- The sight as defined in claim 30, wherein said plate of said 3 32. sighting member is positioned either right-side-up or up-side-down 4 5 in said channel in said rearward-facing surface of said mounting 6 member depending upon what shape a user desires for said sighting 7 through bore in said plate of said sighting member by virtue of said pair of through bores in said mounting member not being threaded and 8 said auxiliary through bore in said plate of said sighting member 9 10 being threaded and horizontally-aligned with said pimple of said 11 plate of said sighting member.